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HYDRAULIC AND TIDE TABLES,

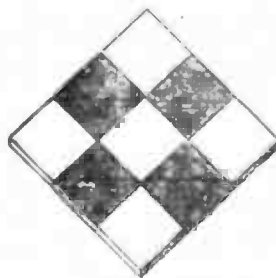
TO AID THE CALCULATION OF WATER AND MILL POWER, WATER SUPPLY, DRAINAGE AND NAVIGABLE RIVERS, WITH SYNOPSIS OF RAIN-FALL IN GREAT BRITAIN; TOGETHER WITH THE PROPERTIES AND STRENGTH OF MATERIALS; USEFUL NUMBERS; POWERS, ROOTS; AND LOGARITHMS.

BY NATHANIEL BEARDMORE, MEMBER OF THE INSTITUTION OF CIVIL ENGINEERS.

The First Edition of this Work was received with much greater favour than the author had at all expected; and the sale was large, as an technical work. To extend the use of this edition as a hand book for the Engineer, in matters relating to Hydraulics and Hydrodynamics, many new Tables have been constructed, and Tide Tables inserted at the close of the book, chiefly compiled from the data offered in the Admiralty Tide Tables and from the Nautical Almanac.
The introductory remarks on the use of the Tables, have been amended, and more information is interspersed, chiefly on our English rivers—the drainage areas of the more important of which have been carefully computed from the Ordnance Map. In the original remarks on tides and rivers, experience and practice are the great guide; and therefore, to obtain the best data for practical results, have carefully collated all the well-authenticated data within our reach of personal experience, and had them condensed into tabular form.—*Prepared for the Second Edition.*

WATERLOW and SONS, Parliament-street, Westminster; Barchin-lane; and London Wall, City; WEALE, 36, High Holborn; BLACK, Edinburgh; J. and J. THOMSON, Manchester; WEBB and HUNT, Liverpool; ARMENGAUD, Aix, Paris.

H.R.H. PRINCE ALBERT'S MODEL COTTAGES.



SQUARE PAVING-TILES.



TO THE EDITOR OF "THE BUILDER."

Sir,—It is not because mutual advantage may have resulted, both to myself and your publication, in a business point of view, by a connection which has subsisted between us rather frequently from the origin of your journal, that I solicit you to publish the following remarks and correspondence,—intended to promote truth, as well as justice, as far as they may reach, on the subject to which they bear reference; but I ask it on the ground of my willingness, if required, to pay for the whole as an advertisement.

Premising that three parties appear to stand in need of some such course as the present being taken, viz. first, myself; second, the several authors of such publications as had six months previously contained statements differing from the one now complained of; and third, the public, in all countries and in all times. Premising further, that in the "Manchester Guardian" of the 17th January last, "Vitruvius, jun." in addition to a question, or so as to whether the plan had been adopted elsewhere, asked merely where the "glazed hollow bricks" might be had, but made no further allusion to the other "materials and fittings"—a fact from which it is clear that the appendage to the reply as to the tiles was equally gratuitous as its purport is unfair; nor can its nature be improved by the equally unthought allusion to the Honorary Architect that accompanies it. Premising lastly that the tiles in (as one approaches the cottages) the left-hand ground-floor rooms were the only ones exhibited at Kriourasapros, with rare exceptions, to the public, owing to the occupation by a policeman and his family of the other tiled-floor rooms there; and that evidently, and from first to last, with exceedingly few exceptions, the tiles seen by visitors were not manufactured by the firm alluded to, but by myself, and were supplied as an item of sale and delivery in due course of trade—not as my IMPROVED quality, but according to the usual price paid for similar purposes.

With the above observations, I beg to enclose copies of three letters for publication at length, if agreeable, and to subscribe myself,

Sir, your most obedient servant,

THOS. PEAKE, Proprietor of Peake's Terro-Metallic.

4, Wharf, City-road-basin, London; and The Tileries, Tunstall, March 3, 1853.

(No. I.—Copy.)

Messrs. John Ridgway and Co. to the "Manchester Guardian."

"TO THE EDITOR OF THE 'MANCHESTER GUARDIAN.'"

"SIR,—We beg to reply to the inquiry of your correspondent 'Vitruvius, jun.' that we are the manufacturers of the patent glazed hollow bricks which are used in the interior of Prince Albert's model cottages, Knightsbridge. We have subsequently prepared others, and much better, for the exterior of the Waterworks Tower, at Highbury. We have not, as yet, been in a condition to supply the article for the erection of other cottages. Having perfected the enrolment of our patent, we are now preparing our works, and shall shortly be ready to execute orders. In the meantime, we are ready to receive application, and to give every requisite information.

"Respectfully yours,

"JNO. RIDGWAY and CO.

"Causton-place, Staffordshire Potteries, Jan. 22, 1852.

"The Prince's Cottages were planned and executed by H. Roberts, esq. of London: the tiles were manufactured by Messrs. Haywood, Brownhills, in the Staffordshire Potteries."

(No. II.—Copy.)

Mr. Peake to H. Roberts, esq.

"4 Wharf, City-road Basin, London, 4th February, 1853.

"SIR,—It is not without hesitation that I have ventured to trouble you with a subject calculated to do me injury, in a way which I have not been able to reconcile with either justice or truth.

"In order to enable you to comprehend my meaning, without much trespass on your time, I beg to enclose from the 'Manchester Guardian' of the 24th ultimo, the subject referred to, appended to a letter by 'Jno. Ridgway and Co.' in these words:—
"The tiles were manufactured by Messrs. Haywood, Brownhills, in the Staffordshire Potteries."

"When I reflect that Mr. Ridgway is doubtless the writer of these words, and that his professions of friendship towards me have been so marked; considering also what has appeared in respect of the tiles in 'The Builder,' 17th May, 1851; 'The Labourers' Friend,' June ditto, as well as in the large number of handbills distributed at the Model Cottages in the Crystal Palace; considering the interest which Mr. Ridgway had as an inducement to persevere carefully all that was issued relative to the subject, I am unable to refrain from the apprehension that I have I have not adopted his Patent Tiles, although so long and sedulously urged to do so, nor had so much confidence as to add to

his advice in another negotiation as to real property, is this persecution launched against me, in a locality so distant from The Tileries, as well as from this Depot, that it might have worked without my knowledge to my damage, but for the kindness of a friend.

"Pardon the liberty taken by,

"Sir, your obedient and faithful servant,

"To H. Roberts, esq. 10, Connaught-square."

"THOS. PEAKE.

(No. III.)

Copy of a Letter from H. Roberts, esq. to Mr. Peake.

"10, Connaught-square, Hyde-park, 4th February, 1853.
"SIR,—I do not let one hour pass without replying to your note of to-day's date, and expressing my astonishment, that any one should have done you the injustice of publishing the exclusive statement made in the postscript to the letter in the 'Manchester Guardian,' signed Jno. Ridgway and Co. which you have sent me.

"Your tiles were used to the same extent in H. R. H. Prince Albert's Model Houses as those of Messrs. Haywood, and I consider them fully equal in quality, otherwise I should not have subsequently ordered roofing tiles from you to be sent into Scotland for the Earl of Galloway.

"Two compartments of the model structure, placed in the Exhibition, by the Society for Improving the Condition of the Labouring Classes, were laid with your tiles, and although trodden on, probably by some millions of persons, they appeared to wear remarkably well.

"I wish that you, or some other enterprising manufacturer, would direct attention to the glazing of hollow bricks, which may be easily done by the same process as is adopted at Sunderland, in the lining of common brown earthenware pans; the effect, I believe, would be very similar to that of the glazed bricks used in the Prince's Model Houses, the cost of which precludes their general use.

"I am, Sir, your obedient servant,

"HENRY ROBERTS.

"Hon. Architect to H. R. H. Prince Albert's Model Houses, and to the Society for Improving the Condition of the Labouring Classes.

"Mr. Thos. Peake.

"The glazed bricks used in the Prince's Model Houses are not 'Patent Glazed Hollow Bricks,' as designated by Messrs. Ridgway and Co. but the larger portion of them are glazed 'Patent Bonded Hollow Bricks,' the patent being for the form of brick, and not for the glazing; at least, I am not aware of Messrs. R. and Co. having any patent for the process of glazing such bricks."